

# MOS SERIES

## MINIATURE METAL OXIDE RESISTOR

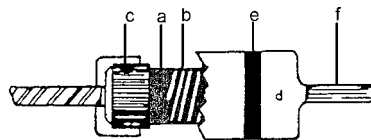


STANDARD TYPE MOS(1W,2W,3W,4W,5W,6W)

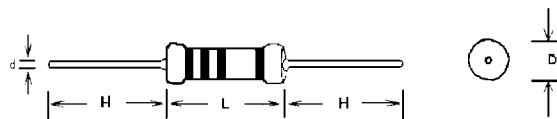
### FEATURES:

- SPEC PER IEC 115-4, MIL-11804.
- STANDARD TOLERANCE:  $\pm 2\%$ (G) &  $\pm 5\%$ (J).
- NON FLAMMABLE.
- HIGH RELIABILITY.
- HIGH POWER IN SMALL SIZE.

### CONSTRUCTION



- A) CERAMIC CORE (HIGH ALUMINUM COMPOSITION)
- B) METAL OXIDE FILM (HIGH STABILITY)
- C) END CAP (TINNED IRON)
- D) NONFLAME LACQUER(SOLVENT-PROOF, RESISTIVE TO HEAT & HUMIDITY)
- E) COLOR CODE PER IEC & EIA STANDARDS (4 RINGS)
- F) TINNED COPPER WIRE (RELIABLE SOLDERABILITY)



### DIMENSIONS:

| TYPE NO. | DIMENSIONS |                |               |                |               |
|----------|------------|----------------|---------------|----------------|---------------|
|          | WATT       | L $\pm$ mm     | D $\pm$ 0.5mm | d $\pm$ 0.05mm | H $\pm$ 3.0mm |
| MOS100   | 1W         | 9.0 $\pm$ 1.0  | 3.2           | 0.6            | 27            |
| MOS200   | 2W         | 11.0 $\pm$ 1.0 | 4.3           | 0.8            | 36            |
| MOS300   | 3W         | 15.0 $\pm$ 1.0 | 4.8           | 0.8            | 35            |
| MOS400   | 4W         | 18.0 $\pm$ 1.5 | 5.8           | 0.8            | 35            |
| MOS500   | 5W         | 18.0 $\pm$ 1.5 | 5.8           | 0.8            | 35            |
| MOS600   | 6W         | 24.0 $\pm$ 1.5 | 7.8           | 0.8            | 38            |

SPECIAL SIZES, VALUES AND SPECIFICATIONS NOT LISTED AVAILABLE ON SPECIAL ORDER.

# MOS SERIES

## MINIATURE METAL OXIDE RESISTOR



### CHARACTERISTICS:

| POWER RATED<br>( 70℃ )             |     | MOS100<br>1W     | MOS200<br>2W     | MOS300<br>3W     | MOS400<br>MOS500<br>4W/5W | MOS600<br>6W     |
|------------------------------------|-----|------------------|------------------|------------------|---------------------------|------------------|
| ITEM                               |     |                  |                  |                  |                           |                  |
| MAX WORKING VOLTAGE                |     | 350V             | 350V             | 350V             | 350V                      | 500V             |
| MAX OVERLOAD VOLTAGE               |     | 600V             | 700V             | 700V             | 700V                      | 1000V            |
| MAX INTERMITTENCE OVERLOAD VOLTAGE |     | 600V             | 1000V            | 1000V            | 1000V                     | 1500V            |
| DIELECTRIC WITHSTANDING VOLTAGE    |     | 350V             | 600V             | 600V             | 600V                      | 1000V            |
| RESISTANCE TOLERANCE               |     | ± 2(G)<br>± 5(J) | ± 2(G)<br>± 5(J) | ± 2(G)<br>± 5(J) | ± 2(G)<br>± 5(J)          | ± 2(G)<br>± 5(J) |
| RESISTANCE RANGE                   | MIN | 0.1R             | 0.1R             | 0.1R             | 0.1R                      | 0.1R             |
|                                    | MAX | 150K             | 150K             | 150K             | 150K                      | 150K             |

NOTE: RATED CONTINUOUS WORKING VOLTAGE (RCWV) SHALL BE DETERMINED FROM  
 $RCWV = \sqrt{\text{POWER RATING} \times \text{RESISTANCE VALUE}}$

### PERFORMANCE SPECIFICATIONS :

| CHARACTERISTIC               | SPECIFICATIONS       | TEST METHODS                                                     |
|------------------------------|----------------------|------------------------------------------------------------------|
| DC RESISTANCE                | ± 5%                 | AT 25℃                                                           |
| TEMPERATURE COEFFICIENT      | ± 300PPM             | RESISTANCE VALUE AT ROOM TEMPERATURE AND ROOM TEMPERATURE + 100℃ |
| SHORT TIME OVER LOAD         | ± (1% ± 0.05R)       | 2.5 TIME RCWV<br>5 SEC.                                          |
| INSULATION RESISTANCE        | 1000M OR MORE        | V-BLOCK                                                          |
| LOAD LIFE                    | ± (5% ± 0.05R)       | 70℃ , 1000 HRS.                                                  |
| LOAD LIFE IN HUMIDITY        | ± (5% ± 0.05R)       | 40℃ , 90-95%RH,<br>1000 HRS.                                     |
| TEMPERATURE CYCLING          | ± (1% ± 0.05R)       | — 25℃ / 105℃ ,<br>5 CYCLING.                                     |
| RESISTANCE TO SOLDERING HEAT | ± (1% ± 0.05R)       | 350 ℃ , 3.5 SEC.<br>260 ℃ , 10 SEC.                              |
| SOLDERABILITY                | 95% COVERAGE MINIMUM | 235 ℃ , 2 SEC.                                                   |